LogiSon®
ACOUSTIC NETWORK

PRODUCT CATALOGUE

SOUND MASKING

PAGING

MUSIC

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THE SYMPOSIUM DISTINCTION AWARDS

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OVERVIEW
A TRUSTED PROVIDER

Our company has been dedicated to the design and manufacture of sound masking systems for over thirty years. Our products are available globally and installed in many hundreds of millions of square feet for clients ranging in size from small business to Fortune 500.

In 2003, we revolutionized the industry when we launched the world's first *networked* sound masking, paging and music system: the LogiSon® Acoustic Network. It's now a recognized leader that has earned over sixteen awards for innovation, performance and ease of use.

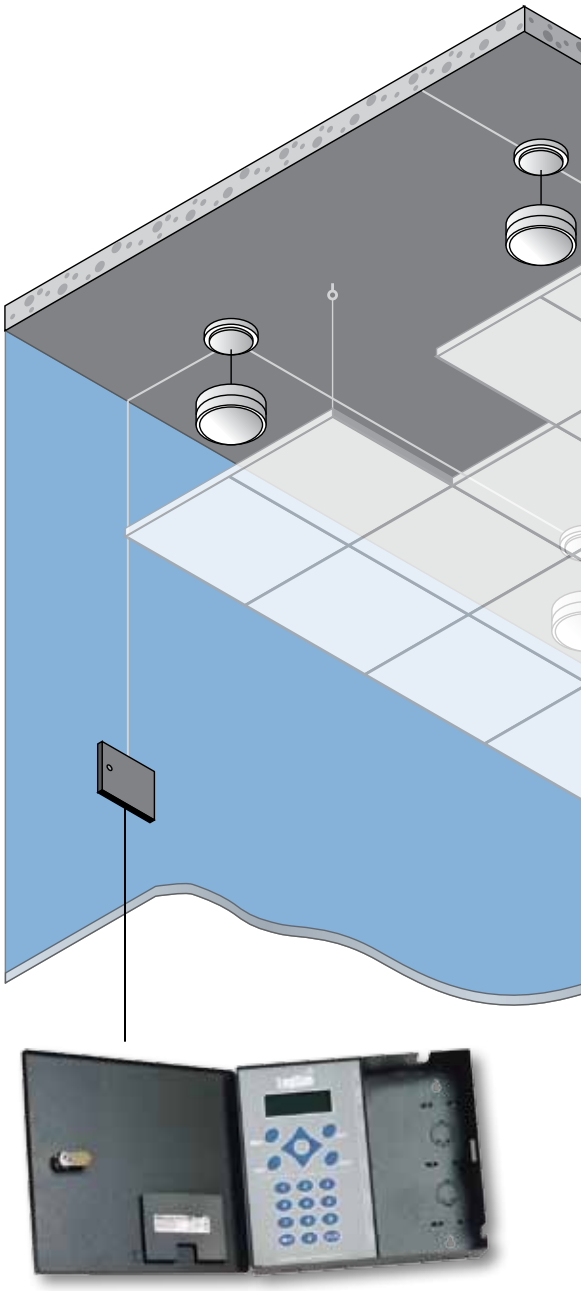
With our length and breadth of experience in this field, we know that *flexibility* is the key to a successful sound masking implementation. That's because it isn't enough to introduce just any sound into your space. It has to be the *right sound*, in the *right place*, at the *right time*. The LogiSon Acoustic Network provides this superior level of acoustic control and puts it at your fingertips.

This elegantly engineered solution is suitable for projects of any size and complexity. A variety of loudspeaker designs, small zones and precise control over industry-leading functions allow the system to be customized for the unique conditions presented by each installation. It also has paging and music capabilities, eliminating the need for a separate system. Networked control of settings and zones means adjustments can be made in minutes following any organizational or structural changes.

Our representatives provide a complete range of professional services and highly responsive technical support. They design, tune and program the LogiSon Acoustic Network, either independently or together with your acoustical consultant. The system can be installed by our representative's in-house technicians, a third party or your own electrical or audio contractor. If necessary, it can easily be expanded or relocated in the future.

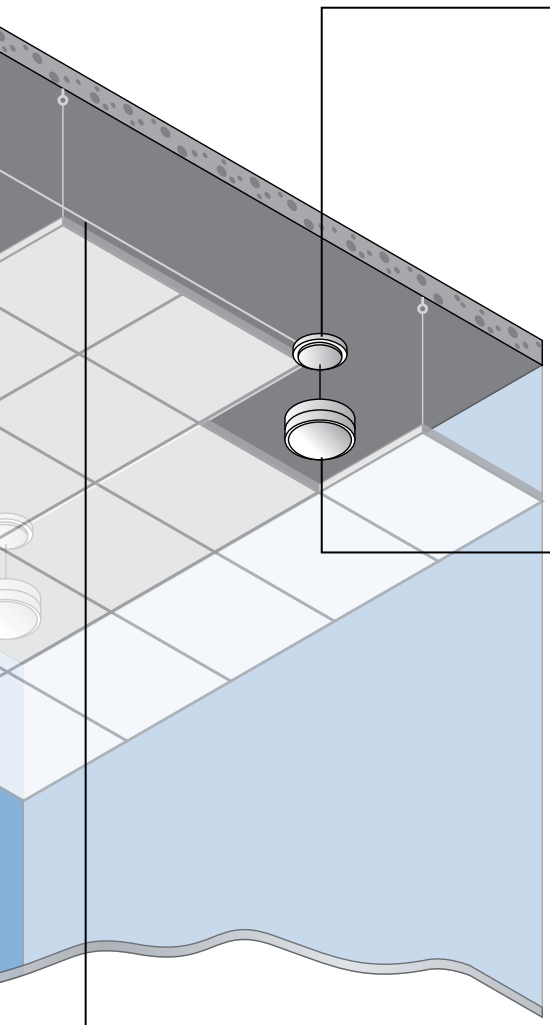
To find the LogiSon Representative nearest you or to download the spec, visit our website:

www.logison.com



Network Control Panel

The Network Control Panel can be mounted on a wall or in an equipment closet. Users can manage the system's settings and zones from this central location. If paging or background music are needed, simply add an Audio Input Module to the panel and connect a source, such as a telephone system.



Hub

Primary Hubs are connected to the Network Control Panel in series. This component lets users program the zoning and output for individual loudspeakers. It also offers multiplexed audio without the need for additional generators, amplifiers or equalizers.

If desired, up to two Secondary Hubs can be connected to each Primary Hub and replicate its settings, increasing zone size from one loudspeaker to a maximum of three (225 to 675 ft^2).

Loudspeaker

A loudspeaker is suspended from each hub. Though usually located above a suspended ceiling, a range of models is available to accommodate different needs, including open or hard ceilings. Regardless of which one is selected, the system's backbone is always the same high-performance LogiSon technology.

Keypad + Remote

The Programmable Keypad and accompanying remote provide occupants with on-demand adjustment of masking and paging settings, ideal for private offices and meeting rooms.

Software

The LogiSon Acoustic Network offers both hardware- and software-based control.

Acoustic Network Manager Software provides multi-floor or whole-building control from one PC location. Page Director Software lets users create custom paging zones as required. Acoustic Network Supervisor Software monitors the system and sends an email to specified recipients if an issue occurs.

Cabling

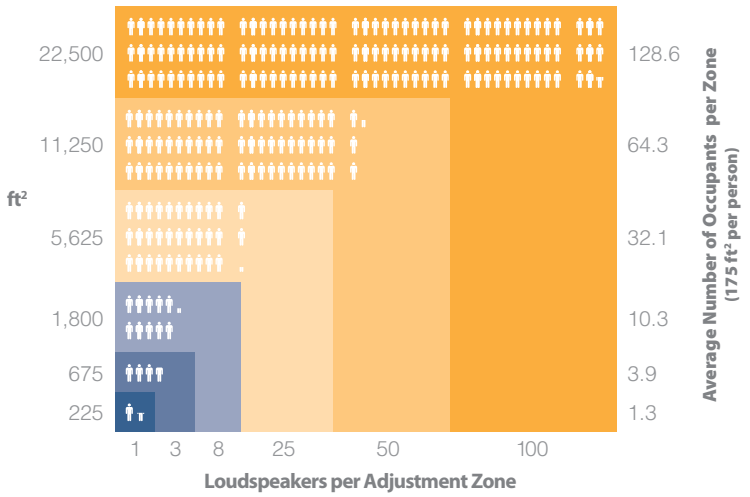
Wiring consists of a single line of low-voltage cable. However, zoning is digital, not hardwired, allowing changes to be made in minutes.

OVERVIEW

SMALL ZONES, UNBEATABLE PERFORMANCE

Partial Client List

- A.C. Nielsen
- Aecom
- Agilent Technologies
- Bank of New York
- Capital One
- CB Richard Ellis
- CIBC
- CNN
- Cushman & Wakefield
- DaimlerChrysler
- Deloitte
- Ernst & Young
- Franklin Templeton
- GlaxoSmithKline
- Goodwill
- Hanesbrands
- Hilton
- Honda
- IBM
- Jones Lang LaSalle
- Kinross Gold
- Kraft
- Manulife Financial
- Marshall Macklin Monaghan
- Microsoft
- MillerCoors
- Modesto Memorial
- Nokia
- Pentair
- Polo Ralph Lauren
- PricewaterhouseCoopers
- Procter & Gamble
- Rabobank
- Royal Bank of Canada
- Shell
- Siemens
- Smith & Nephew
- Sony Ericsson
- Standard Life
- Target
- TELUS
- The Hartford
- Time Warner
- Towers Watson
- Tribeca Grand
- US Navy
- Volksbank
- Wachovia-Wells Fargo
- Xstrata



Any masking system will introduce a sound into your facility, but the level of speech privacy, noise control and comfort you'll achieve depends on the size of its adjustment zones and the degree of control offered within each one.

The LogiSon Acoustic Network provides the smallest zones (1 to 3 loudspeakers) with the finest adjustments: 100 volume steps in 0.5 dBA increments and 1/3-octave frequency control within each one. The masking sound can be tuned to local conditions, ensuring that it's comfortable and effective across your entire space. And because control is networked, this level of performance is also easy to maintain.

When a masking system's adjustment zones are larger, numerous loudspeakers are set to the same volume and frequency, but the sound fluctuates across the space as it interacts with elements of the workplace design. Because you can't make precise changes in specific areas, you have to set each zone to a level that's merely *best on average*.

Some large-zoned systems try to address this problem by providing audio transformers at each loudspeaker, but they only offer coarse volume adjustments and none for frequency. Others direct their loudspeakers downward in the mistaken belief that the factors influencing the sound are thereby avoided. In reality, they simply don't provide the control needed to give you the best result.

The graph above shows the number of people who would be affected if large zones forced you to choose between comfort and performance. If you had to increase the volume to improve the system's effectiveness for the occupants in one area, it would be too loud for others. If you lowered it, you'd sacrifice speech privacy and noise control. This pattern would repeat at unpredictable points across your space.

You can usually expect a 10 percent reduction in performance for each decibel below the target masking volume. Yet, some systems allow as much as 4 to 6 dB variation.

Don't risk your system's performance. Choose a custom fit.

NETWORK CONTROL PANEL

NCP-2

A sound masking system's quality and durability depend on its ability to adapt to changes as much as on its material construction. Networked control makes future adjustments quick and easy because changes can be made without physically accessing the components or altering the cabling. Such a high degree of flexibility maximizes the system's effectiveness and occupant comfort, helping safeguard your most valuable investment: employees.

Security

The LogiSon Acoustic Network is secured using both physical and electronic methods.

The Network Control Panel is small and can easily be located within a secure space. Cabling connections are made inside the enclosure. A key is required to open the door and access the keypad. A password is needed to change the settings. There are no physical controls on the hubs or loudspeakers.

The network upstream from the panel is open. However, 128-bit AES encryption ensures that commands are unreadable whether transmitted to the panel by wired or wireless connection, providing further protection from unauthorized access. Downstream, the network is standard RS-485, which is commonly used in building automation.

The panel also monitors system performance. If a Relay Output Module is installed, it can be connected to warning lights, sirens or a third party security system to immediately alert the administrator to any issues. The administrator can also elect to receive email notification via the Acoustic Network Supervisor Software.

For more information about the LogiSon Acoustic Network's security features, see the *Acoustic Network Supervisor Software* and *Relay Output Module* sections of this catalogue or speak to your LogiSon Representative.

The Network Control Panel can be wall-mounted within a room or closet. It provides the functionality of numerous rack-mounted components, reducing the costs, energy and space needed for equipment.

The panel allows the administrator to establish timer, paging and keypad zones. There are no restrictions on the size of each type of zone and they can be non-contiguous. The administrator can also set the volume and equalizer levels for masking and paging, program ramp-up and timer schedules, select paging channels, and create user limits for each Programmable Keypad. The panel uses non-volatile memory so that these settings are preserved in the event of a power failure.

Commands can be sent to one, a group or all Primary Hubs on the system. Panels can be networked together so that the administrator can manage several floors, an entire building or campus from one location. They can also be linked to third party control systems. Changes can be made in minutes following renovations, moving furniture or personnel, keeping the system performing at optimal levels throughout its lifecycle.

Paging and music are provided simply by adding one or more Audio Input Modules to the panel and connecting a source such as a telephone system or MP3 player. The panel also features a priority page input that allows temporary settings to be implemented in emergencies.

The panel's calendar-based timer utility allows the administrator to schedule changes in the sound masking volume to match expected occupancy levels. Each panel offers nine timer zones. The administrator can establish a different schedule for each zone and each day of the week, with up to nine volume changes per day. These changes are made at a gradual, user-defined rate so as not to call occupants' attention to them. The administrator can also program unique schedules for up to 30 individual dates, such as holidays. The panel adjusts for daylight saving time.

There is also an introductory ramp-up feature for retrofit installations, which progressively increases the sound masking volume over a period of up to 15 days, allowing occupants to acclimatize to their new acoustical conditions. The administrator can program the ramp-up period to begin on a defined date. A unique version can be established for each timer zone.

For more information, see the *LogiSon® NCP-2 User Manual.*

NETWORK CONTROL PANEL

NCP-2

SPECIFICATIONS

Control Performance	Network initialization, masking, paging, timer, keypad settings, zoning, paging/music inputs, system monitoring and diagnostics
Masking Performance	
Volume	35 to 85 dBA in 0.5 dBA steps + mute
Equalization (w/ PC)	1/3-octave, 23 bands, 63 to 10,000 Hz
Preset Contours	50 preset options; customization of each band
Paging Performance	
Audio Inputs	3, any combination of auxiliary, telephone and microphone
Zone Configuration	Zone 1, 2, 3 or none; unlimited zones with Page Director Software
Volume	35 to 85 dBA @ 1 m in 0.5 dBA steps + mute
Equalization (w/ PC)	1/1-octave, 8 bands
Preset Contours	50 preset options; customization of each band
Timer Performance	
Zone Number	Up to 9
Zone Size	Unrestricted
Scheduling	Unique schedule for each day
Volume Changes per Day	Up to 9
Volume Increments	0.5 dBA steps
Rate of Change	0 to 9 minutes per volume increment
Exception Schedules	Up to 30 dates, 3 user-defined schedules
Delayed Start Feature	Yes
Ramp Up Feature	Up to 15 days, user-defined schedule in 0.5 or 1 dBA steps
Daylight Savings Adjustment	Yes
Components per Panel	
Max. Number of Components	125 per panel
Max. Number of Loudspeakers	375 per panel
Network Type	
Upstream from Panel	Open; protected with 128-bit AES encryption
Downstream from Panel	Closed; standard RS-485
Connections	
Power Input	3-pin, screw terminal
Network Output	6-pin
Ethernet Connection	10 Base-T RJ-45
Audio Inputs	3-pin, screw terminal x 3
Priority Page	2-pin, screw terminal
Power	
Input	30 Vdc
Output	30 Vdc
Consumption	Maximum 12 W
Ground	Earth ground
Relay Outputs	2-pin, screw terminal x 2
Battery	
Size	1/2 AA
Voltage	3.6 V
Life Expectancy	10 years
Physical Specifications	
Dimensions (W x H x D)	28 x 23 x 7.6 cm; 11 x 9 x 3 inches
Enclosure	Steel with powdercoat finish
Color	Charcoal grey
Weight	2 kg; 5 lbs
Keypad	20-key membrane panel
Display	4 x 20 backlit LCD
Mounting	4 keyhole mounting positions
Security	
Physical	Key-lock enclosure
Electronic	Password required to access settings, 3 levels
Warranty	5 years; see *LogiSon® Product Warranty* for details
Certifications	Meets UL, FCC and CE standards; RoHS compliant

A LogiSon Representative will design the system and select the components. Technical specifications are subject to change without notice.

This desktop icon launches the software. The laptop to the left shows the Masking Equalization Screen. From this screen, the administrator can set the masking volume and contour, and mute the masking and/or paging.

Acoustic Network Manager can be used to control the LogiSon Acoustic Network when linked to a Network Control Panel via Ethernet or wireless connection.

This software gives the administrator a level of control that is unsurpassed in the industry. The attractive user interface is configurable to show or hide functionality based on the user or installation type. Communication is protected by 128-bit AES encryption.

Commands can be sent to one, a group or all Primary Hubs. The administrator can establish timer, paging and keypad zones. There are no restrictions on the size of each type of zone and they can be non-contiguous. The administrator can also set the volume and equalizer levels for masking and paging, program ramp-up and timer schedules, select paging channels, and create user limits for each Programmable Keypad. Hub indicators show hub types, hardware status, volume and muting.

Settings can be saved to an electronic file or printed for record-keeping purposes.

For more information, see the *LogiSon® Acoustic Network Manager User Manual.* The application also includes a help file and user guide.

Control Panel Screen

This screen allows the administrator to configure the software to communicate with the panels, initialize the system, upload and download settings between the software and panels, save and retrieve setup files. The Security and Components tabs available from this screen allow the administrator to set user access levels and passwords, establish functional alarms, name and group components, check their status and more.

Timer Screen

From this screen, the administrator can set timer zones, navigate between zones, program each day's schedule, set exception dates and schedules, set the daylight savings adjustment and program ramp-up profiles.

SPECIFICATIONS

Supported Operating Systems	• Windows 7 • Windows Vista with Service Pack 2 or later • Windows XP (x86 Home or Professional Edition) with Service Pack 3
Supported Architectures	• X86 • X64
Hardware Requirements	• Computer with 1 GHz or faster processor with 1 GB RAM or more • Graphics parts supporting WDDM drivers (Windows Display Driver Model) recommended • Minimum disk space (Microsoft components/Installation): X86 – 850 MB X64 – 2 GB • Disk space (LogiSon components): 20 MB
Prerequisites	• Windows Installer 3.1 or later • Internet Explorer 6.0 or later • Microsoft .NET Framework 4 or later

PROGRAMMABLE KEYPAD + REMOTE

PK-1, PKR-1

Remote Control

The keypad also features an infrared remote control receiver, enabling the user to adjust the settings using the Programmable Keypad Remote (PKR-1). This feature can be disabled in high-security applications.

User Instructions

The Programmable Keypad is easy to use.

To activate it, press any key. If the desired function is not currently highlighted, press the Select key to choose either Masking or Paging. The screen displays the current setting for that function.

To increase or decrease the volume, press the + or - key. To mute the function, press the Mute key. The screen displays two dashes. To un-mute, press the Mute key again.

To change the paging channel, press the Select key until the screen displays a C. To move to another channel, press the + or - key.

The Programmable Keypad is installed in a standard single-gang wall box using a white, Decora-style faceplate. It provides occupant control of the sound masking and paging settings in private offices and meeting rooms, or anywhere else there is a need for individual control. Each Network Control Panel supports up to 58 keypad zones.

An administrator defines what area each keypad controls, the functions it offers and the degree to which occupants can change those functions. The occupant can then customize the room's settings within those parameters. For example, they may be able to increase or decrease the sound masking and/or paging volume, mute the sound masking and/or paging, and/or change the paging channel.

The administrator also sets the keypad's default settings. The keypad can be manually restored to these settings or set to do so automatically after a defined period of time or at a particular time of day.

SPECIFICATIONS

Control Performance	Masking and paging volume control, masking and paging mute, paging channel selection, remote control receiver enable/disable
Masking Performance	
Volume Adjustment Range	99 step range in 0.5 dBA steps + mute
Volume Restriction	Administrator defines minimum and maximum
Function Restriction	Administrator enables or disables functions
Paging Performance	
Volume Adjustment Range	99 step range in 0.5 dBA steps + mute
Volume Restriction	Administrator defines minimum and maximum
Function Restriction	Administrator enables or disables functions
Paging Channel Selection	Zone 1, 2, 3 or none
Connections	
Network In/Out	6-pin
Power	
Input	30 Vdc
Consumption	Maximum 6 W
Zoning	
Method	Electronically zoned using Network Control Panel or Acoustic Network Manager Software
Zone Size	No limit
Physical Specifications	
Dimensions (W x H x D)	4 x 10.4 x 4.6 cm; 1.58 x 4.1 x 1.825 inches
Color	White
Weight	120 g; 4.2 oz
Display	2-digit LED
Keypad	4-key membrane panel
Remote Control	
Remote Receiver	Infrared remote control receiver for use with PKR-1
Function Restriction	Administrator enables or disables function
Mounting	Single-gang wall box with white, Decora-style faceplate
Security	
Function Restrictions	See restrictions noted above
Warranty	5 years: see *LogiSon® Product Warranty* for details
Certifications	Meets UL, FCC and CE standards; RoHS compliant

A LogiSon Representative will design the system and select the components. Technical specifications are subject to change without notice.

Installation

Primary Network Hubs are typically mounted to the deck or another approved structure within the ceiling. A loudspeaker is suspended from each one, as shown above.

In open ceilings, an attractive braided steel cable can be used rather than the standard chain. For more information, see the *Open Ceiling Loudspeaker* section of this catalogue or speak to your LogiSon Representative.

Primary Hubs are connected to the Network Control Panel in series and each one is automatically assigned a unique operating address during system start up. The panel uses these addresses to communicate with the hubs, allowing the administrator to program the zoning and output variables for individual loudspeakers.

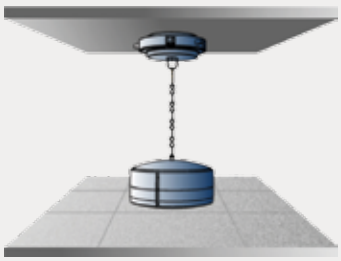
Primary Network Hubs are typically mounted to the deck or another approved structure within the ceiling and a loudspeaker is suspended from each one. The Primary Network Hub features communication technology, Digital Signal Processing (DSP) truly random masking sound generation, a 1/3-octave masking equalizer, a 1/1-octave paging equalizer, an amplifier, independent volume controls for masking and paging, and multiplexed paging selection. This high level of component integration eliminates the need for centrally-located audio equipment. The hub also performs unique power and loudspeaker monitoring functions.

SPECIFICATIONS

Masking Performance	
Sound Generation	Digital Signal Processor (DSP), truly random (nondeterministic)
Volume	35 to 85 dBA in 0.5 dBA steps + mute
Equalization (w/ PC)	1/3-octave, 23 bands, 63 to 10,000 Hz
Preset Contours	50 preset options; customization of each band
Paging Performance	
Zone Configuration	Zone 1, 2, 3 or none
Volume	35 to 85 dBA @ 1 m in 0.5 dBA steps + mute
Equalization (w/ PC)	1/1-octave, 8 bands
Preset Contours	50 preset options; customization of each band
Timer Performance	Zoning and events set using Network Control Panel or Acoustic Network Manager Software
Components per Hub	
Number of SNH-1	0 to 2
Number of Loudspeakers	1 to 3
Connections	
Network Input	6-pin
Network Output	6-pin
SNH Output	2-pin x 2
Loudspeaker Output	2-pin
Cabling	
PNH to PNH	CA6 series cable
PNH to SNH	CA2 series cable
Power	
Input	30 Vdc
Consumption	3.6 W at typical settings; 6.4 W at maximum settings
Integrated Amplifier	5 W
Physical Specifications	
Dimensions (W x H)	13.0 x 4.5 cm; 5.1 x 1.75 inches
Enclosure	Plenum-rated resin
Color	Off-white or charcoal grey; custom colors available *White available for use with LA-1OP (not plenum rated)
Weight	0.2 kg; 0.4 lb
Mounting	Flexible mounting options; see *LogiSon® Installation Manual*
Security	
Physical	No physical controls
Electronic	Monitoring of communication, power and loudspeakers
Warranty	5 years; see *LogiSon® Product Warranty* for details
Certifications	Meets UL, FCC and CE standards and is approved for use in air-handling plenums; RoHS compliant

PRIMARY POWER HUB

PNH-2P



Installation

While otherwise identical to the Primary Network Hub (PNH-2), the Primary Power Hub provides an input that is used to connect a power supply to the system.

According to codes in most regions, a Class 2 power supply must be used with a sound masking system or the cable carrying power requires conduit.

Several Class 2 options are available for use with the LogiSon Acoustic Network. For more information, see the *Power Supplies* section of this catalogue or speak to your LogiSon Representative.

Primary Power Hubs are typically mounted to the deck or another approved structure within the ceiling and a loudspeaker is suspended from each one. The Primary Power Hub features communication technology, Digital Signal Processing (DSP) truly random masking sound generation, a 1/3-octave masking equalizer, a 1/1-octave paging equalizer, an amplifier, independent volume controls for masking and paging, and multiplexed paging selection. This high level of component integration eliminates the need for centrally-located audio equipment. The hub also performs unique power and loudspeaker monitoring functions. In addition, the Primary Power Hub provides an input that is used to connect a Class 2 power supply to the system with plenum-rated, 2-conductor cabling.

SPECIFICATIONS

Masking Performance	
Sound Generation	Digital Signal Processor (DSP), truly random (nondeterministic)
Volume	35 to 85 dBA in 0.5 dBA steps + mute
Equalization (w/ PC)	1/3-octave, 23 bands, 63 to 10,000 Hz
Preset Contours	50 preset options; customization of each band
Paging Performance	
Zone Configuration	Zone 1, 2, 3 or none
Volume	35 to 85 dBA @ 1 m in 0.5 dBA steps + mute
Equalization (w/ PC)	1/1-octave, 8 bands
Preset Contours	50 preset options; customization of each band
Timer Performance	Zoning and events set using Network Control Panel or Acoustic Network Manager Software
Components per Hub	
Number of SNH-1	0 to 2
Number of Loudspeakers	1 to 3
Connections	
Power Input	2-pin
Network Input	6-pin
Network Output	6-pin
SNH Output	2-pin x 2
Loudspeaker Output	2-pin
Cabling	
PNH to PNH	CA6 series cable
PNH to SNH	CA2 series cable
Power	
Input	30 Vdc
Consumption	3.6 W at typical settings; 6.4 W at maximum settings
Integrated Amplifier	5 W
Physical Specifications	
Dimensions (W x H)	13.0 x 4.5 cm; 5.1 x 1.75 inches
Enclosure	Plenum-rated resin
Color	Off-white or charcoal grey; custom colors available *White available for use with LA-1OP (not plenum rated)
Weight	0.2 kg; 0.4 lb
Mounting	Flexible mounting options; see *LogiSon® Installation Manual*
Security	
Physical	No physical controls
Electronic	Monitoring of communication, power and loudspeakers
Warranty	5 years; see *LogiSon® Product Warranty* for details
Certifications	Meets UL, FCC and CE standards and is approved for use in air-handling plenums; RoHS compliant

A LogiSon Representative will design the system and select the components. Technical specifications are subject to change without notice.

Accessories

While otherwise identical to the Primary Network Hub (PNH-2), the Primary Accessory Hub provides an input that is used to attach accessories such as the Programmable Keypad (PK-1) to the system. The keypad is shown together with the Programmable Keypad Remote Control (PKR-1) above.

Primary Accessory Hubs are typically mounted to the deck or another approved structure within the ceiling and a loudspeaker is suspended from each one. The Primary Accessory Hub features communication technology, Digital Signal Processing (DSP) truly random masking sound generation, a 1/3-octave masking equalizer, a 1/1-octave paging equalizer, an amplifier, independent volume controls for masking and paging, and multiplexed paging selection. This high level of component integration eliminates the need for centrally-located audio equipment. The hub also performs unique power and loudspeaker monitoring functions. In addition, the Primary Accessory Hub provides an input that is used to attach accessories such as the Programmable Keypad to the system.

SPECIFICATIONS

Masking Performance	
Sound Generation	Digital Signal Processor (DSP), truly random (nondeterministic)
Volume	35 to 85 dBA in 0.5 dBA steps + mute
Equalization (w/ PC)	1/3-octave, 23 bands, 63 to 10,000 Hz
Preset Contours	50 preset options; customization of each band
Paging Performance	
Zone Configuration	Zone 1, 2, 3 or none
Volume	35 to 85 dBA @ 1 m in 0.5 dBA steps + mute
Equalization (w/ PC)	1/1-octave, 8 bands,
Preset Contours	50 preset options; customization of each band
Timer Performance	Zoning and events set using Network Control Panel or Acoustic Network Manager Software
Components per Hub	
Number of SNH-1	0 to 2
Number of Loudspeakers	1 to 3
Connections	
Accessory Input	6-pin
Network Input	6-pin
Network Output	6-pin
SNH Output	2-pin x 2
Loudspeaker Output	2-pin
Cabling	
PNH to PNH	CA6 series cable
PNH to SNH	CA2 series cable
Power	
Input	30 Vdc
Consumption	3.6 W at typical settings; 6.4 W at maximum settings
Integrated Amplifier	5 W
Physical Specifications	
Dimensions (W x H)	13.0 x 4.5 cm; 5.1 x 1.75 inches
Enclosure	Plenum-rated resin
Color	Off-white or charcoal grey; custom colors available *White available for use with LA-1OP (not plenum rated)
Weight	0.2 kg; 0.4 lb
Mounting	Flexible mounting options; see *LogiSon® Installation Manual*
Security	
Physical	No physical controls
Electronic	Monitoring of communication, power and loudspeakers
Warranty	5 years; see *LogiSon® Product Warranty* for details
Certifications	Meets UL, FCC and CE standards and is approved for use in air-handling plenums; RoHS compliant

SECONDARY NETWORK HUB

SNH-1

Small Zones & Fine Control

Acoustic conditions and occupant needs are different for private offices, meeting rooms, corridors and reception areas, as well as across open plans. A sound masking system's ability to deal with these differences is determined by the size of its adjustment zones as well as the volume and frequency control it provides within each one.

Up to two Secondary Network Hubs can be connected to each Primary Hub, making the LogiSon Acoustic Network's adjustment zones between 1 and 3 loudspeakers in size (225 to 675 ft^2). Each zone offers 100 volume steps in 0.5 dBA increments and 1/3-octave frequency control.

This small zone size and fine control over settings allows the LogiSon Acoustic Network's masking sound to be tuned to accommodate local needs, ensuring that it's both effective and unobtrusive across the entire space.

Secondary Network Hubs are typically mounted to the deck or another approved structure within the ceiling. A loudspeaker is suspended from each one. Up to two of these hubs can be connected to each Primary Hub, offering zones that are 1 to 3 loudspeakers in size. Each Secondary Network Hub replicates the settings of the Primary Hub to which it is connected.

Hubs and loudspeakers suspended in an open ceiling.

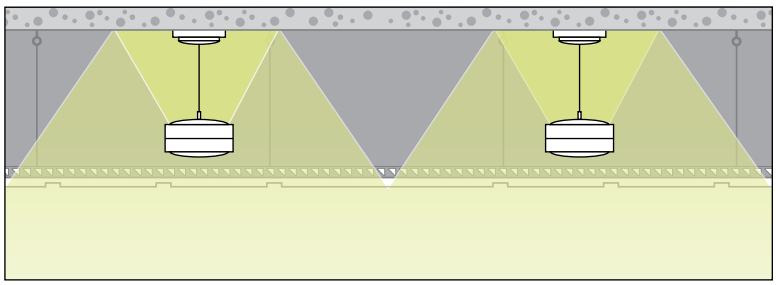
SPECIFICATIONS

Output Performance	Masking, paging and timer inherited from Primary Hub
Components per Hub	1 loudspeaker
Connections	
Signal Input / Output	2-pin x 2
Loudspeaker Output	2-pin
Cabling	
PNH to SNH	CA6 series cable
SNH to SNH	CA2 series cable
Power	0 W
Physical Specifications	
Dimensions (W x H)	13.0 x 4.5 cm; 5.1 x 1.75 inches
Enclosure	Plenum-rated resin
Color	Off-white or charcoal grey; custom colors available * White available for use with LA-1OP (not plenum rated)
Weight	0.2 kg; 0.4 lb
Mounting	Flexible mounting options; see *LogiSon® Installation Manual*
Security	No physical controls
Warranty	5 years; see *LogiSon® Product Warranty* for details
Certifications	Meets UL, FCC and CE standards and is approved for use in air-handling plenums; RoHS compliant

A LogiSon Representative will design the system and select the components. Technical specifications are subject to change without notice.

The most common and best-performing loudspeaker is in-ceiling and upward-facing. Wall-mounted, downward-facing, under-floor and desktop models are useful in situations where it is impossible to access the ceiling or suspend anything in it. See the appropriate sections of this catalogue for more information.

A loudspeaker is suspended from a hub and used to broadcast masking, paging and/or music. The LA-1 model is very flexible and used throughout most LogiSon Acoustic Network installations. The custom clip allows the length of chain to be adjusted without tools. Slack cable retracts into the enclosure, ensuring tidy installation. The full-range driver provides output exceeding the typical masking spectrum of 100 to 5,000 Hz, including the lower frequencies needed for comfort.



SPECIFICATIONS

Audio Performance	
Masking Output	87 dBA maximum
Paging Output	87 dBA maximum
Driver Specifications	
Frequency Range	90 to 10,500 Hz
Dimension	10.1 cm; 4 inches
Power Handling	25 W (RMS)
Sensitivity	88.6 dBA @ 1W / 1m
Magnet Structure	510 g; 18 oz
Impedance	16 ohms
Connections	
Loudspeaker Input	2-pin
Cabling	
Loudspeaker to Hub	Integrated cable assembly
Physical Specifications	
Dimensions (W x H)	16.5 x 9.0 cm; 6.5 x 3.5 inches
Enclosure	Plenum-rated resin
Color	Off-white or charcoal grey; custom colors available
Weight	0.95 kg; 1.9 lbs
Mounting	
Method	Suspend from hub or from deck
Chain Length	61 cm; 24 inches
Chain Adjustment	Tool-free clip
Loudspeaker Orientation	Upwards; tool-free reversibility to downwards if necessary
Cable Management	Slack retracts into enclosure
Warranty	5 years; see *LogiSon® Product Warranty* for details
Certifications	Meets UL, FCC and CE standards and is approved for use in air-handling plenums; RoHS compliant

Loudspeaker Installation

The LogiSon Acoustic Network loudspeakers are typically installed upward-facing, above the ceiling tiles. The indirect transmission of the masking sound results in broad, uniform coverage (see diagram to the right).

The smallest zones (1 to 3 loudspeakers), as well as the finest volume and equalization controls (0.5 dBA steps; 1/3-octave), allow the system to be easily adjusted to account for local conditions above and below the ceiling. In fact, we set the bar for volume consistency in our industry at ±0.5 dBA, ensuring the masking sound is consistently effective and unobtrusive.

Though sound masking loudspeakers can also be installed in a downward-facing fashion (sometimes referred to as 'direct field'), we recommend this only in very limited circumstances. Downward-facing loudspeakers are prone to significant volume variations due to a 'spotlight' effect. Volume variations between loudspeakers can call occupants' attention to the masking sound and also reveal its source, which is contrary to the user's goals.

Furthermore, if the downward-facing loudspeakers are installed in an area with a suspended ceiling, multiple cut-throughs are required. In-plenum loudspeakers are installed invisibly above the ceiling tiles and will not damage them.

OPEN CEILING LOUDSPEAKER

LA-1OP

Its contemporary design and clean, single line of cable makes the LogiSon Acoustic Network the best choice for open ceilings. The white LA-1OP model easily blends in with the lighting and other exposed components. White hubs are also available for use with this loudspeaker model.

A loudspeaker is connected to a hub and used to broadcast masking, paging and/or music. While otherwise identical to the Loudspeaker (LA-1), the LA-1OP model is the preferred choice for open ceilings because of its brighter finish. The user can also opt to suspend it from the hub with an attractive braided steel cable rather than the standard chain.

Mark Trew © SHW Group.

Attractive Design

If the facility, or a percentage of it, will feature an open ceiling, the appearance of the sound masking system's loudspeakers should be considered.

LogiSon components have been designed with visible applications in mind and will complement the investment you make in your facility's appearance. The photos above and to the right show open ceiling installations featuring the LA-1OP model.

SPECIFICATIONS

Audio Performance	
Masking Output	87 dBA maximum
Paging Output	87 dBA maximum
Driver Specifications	
Frequency Range	90 to 10,500 Hz
Dimension	10.1 cm; 4 inches
Power Handling	25 W (RMS)
Sensitivity	88.6 dBA @ 1W / 1m
Magnet Structure	510 g; 18 oz
Impedance	16 ohms
Connections	
Loudspeaker Input	2-pin
Cabling	
Loudspeaker to Hub	Integrated cable assembly
Physical Specifications	
Dimensions (W x H)	16.5 x 9.0 cm; 6.5 x 3.5 inches
Enclosure	Resin
Color	White; custom colors available
Weight	0.95 kg; 1.9 lbs
Mounting	
Method	Suspend from hub or from deck
Braided Steel Cable Length	61 cm; 24 inches
Loudspeaker Orientation	Upwards; tool-free reversibility to downwards if necessary
Cable Management	Slack retracts into enclosure
Warranty	5 years; see *LogiSon® Product Warranty* for details
Certifications	Meets UL, FCC and CE standards; RoHS compliant

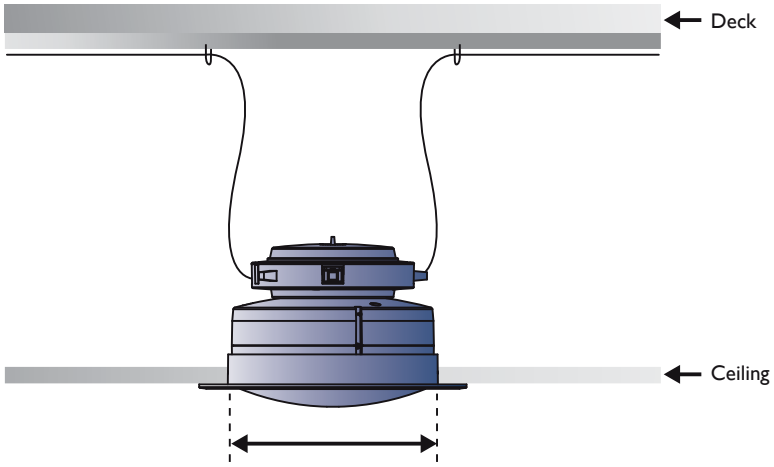
A LogiSon Representative will design the system and select the components. Technical specifications are subject to change without notice.

The LA-1CM model is used when the loudspeaker must be installed in gypsum or another hard ceiling material. A downward-facing loudspeaker (sometimes called 'direct field') is only used when installation conditions require because the masking sound's dispersion and uniformity will be reduced.

The adapter ring pictured above is white. Custom colors, with coordinating loudspeaker grilles, are also available.

The photo above shows the LA-1CM model installed in the ceiling.

A loudspeaker is connected to a hub and used to broadcast masking, paging and/or music. While otherwise identical to the Loudspeaker (LA-1), the LA-1CM model is the preferred choice for downward-facing installation in gypsum or other hard ceilings. The hub is attached to the loudspeaker and lowered into an adapter ring that has been mounted to the ceiling. A steel back plate offers support.



Cut Through Diameter
17.2 cm (6.8 inches)

SPECIFICATIONS

Physical Specifications	
Faceplate Diameter	22 cm; 8.7 inches
Depth	2.8 cm; 1.1 inches
Material	Resin
Color	White; custom colors available
Weight	0.1 kg; 0.2 lb
Mounting	
Attachment to Loudspeaker	Lay-in (with option for screw attachment)
Cut-Through Diameter	17.2 cm; 6.8 inches
Suspension to Ceiling	3-point suspension
Bolt Size for Suspension	8-32 x 2.5 inches
Backup Suspension	Additional suspension option from d-ring on hub
Warranty	5 years; see *LogiSon® Product Warranty* for details

* For loudspeaker specifications, refer to the *Loudspeaker (LA-1)* section of this catalogue.

CHICAGO LOUDSPEAKER
LA-1CH

The Chicago Loudspeaker is pictured above, connected to the hub junction box with Flexible Metal Tubing.

A hub shown inside the sealed junction box.

The Loudspeaker (LA-1) already meets *UL 2043 Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces*. The LA-1CH model – dubbed the 'Chicago Loudspeaker' – is installed in regions where building code requires conduit to be used in any case.

A loudspeaker is suspended from a hub and used to broadcast masking, paging and/or music. The LA-1CH model and the junction box used to house the hub were designed to meet Chicago's stringent requirements. The enclosure and junction box are made of steel. The cabling is contained within Flexible Metal Tubing (FMT) listed for use in plenums and other air handling spaces. Where it enters the enclosure, this specialized conduit terminates in a one-piece zinc connector fitted with a rubberized polymer gasket, forming the smoke-tight seal required by the NEC. The junction box is also sealed. A flame retardant fabric located below the speaker grille prevents the accumulation of dust.

SPECIFICATIONS

Audio Performance	
Masking Output	87 dBA maximum
Paging Output	87 dBA maximum
Driver Specifications	
Frequency Range	90 to 10,500 Hz
Dimension	10.1 cm; 4 inches
Power Handling	25 W (RMS)
Sensitivity	88.6 dBA @ 1W / 1m
Magnet Structure	510 g; 18 oz
Impedance	16 ohms
Connections	
Loudspeaker Input	2-pin
Cabling	
Loudspeaker to Hub	Integrated cable assembly in FMT
Physical Specifications	
Dimensions (W x H)	15.2 x 15.8 cm; 6 x 6.2 inches
Enclosure	Electroplated steel housing, 26 gauge
Weight	1.52 kg; 3.36 lbs including FMT and chain
Mounting	
Method	Suspend from hub
Chain Length	45.7 cm; 18 inches
Loudspeaker Orientation	Upwards facing
Junction Box for Hub	
Dimensions (W x H)	20.3 x 6.6 cm; 8 x 2.6 inches
Material	Electroplated steel housing, 26 gauge
Gasket	Neoprene / EPDM / SBR
Knockouts	5 knockouts; 0.086 inches for ¾-inch conduit; 1.125 inches for 1-inch conduit
Weight	756 g; 1.6 lbs, not including hub
Warranty	5 years; see *LogiSon® Product Warranty* for details
Certifications	Meets UL, FCC and CE standards and is approved for use in air-handling plenums; RoHS compliant

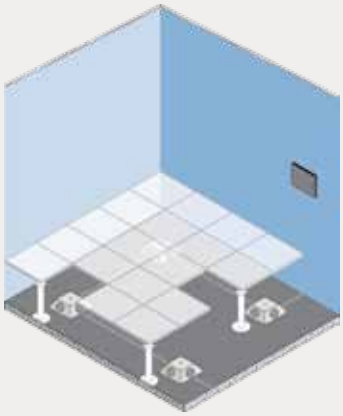
* For hub specifications, refer to the appropriate section(s) of this catalogue.

A LogiSon Representative will design the system and select the components. Technical specifications are subject to change without notice.

LOW PROFILE LOUDSPEAKER
LA-1LP

The LA-1LP model is designed for use in low-profile plenum installations. However, it can also be used under raised flooring.

An overhead view of the LA-1LP showing its four drivers, plenum-rated cable connection and central mounting hole.



Under Floor Installation

The LA-1LP can be installed in a grid-like pattern beneath a raised floor. However, because installing in this location significantly compromises a sound masking system's performance – and rules out using the system for paging/music distribution – it should only be considered if the client absolutely cannot install their system in the ceiling space. If no other option is available, only the LogiSon Acoustic Network will provide the tuning flexibility and ease of future reconfiguration these installation conditions demand.

A loudspeaker is connected to a hub and used to broadcast masking, paging and/or music. The LA-1LP model has been engineered for underfloor and low-profile plenum installations.

Four 3-inch, full-range drivers (100 to 8,000 Hz ± 6 dB) are mounted at 90 degree angles for uniform 360° masking dispersion. The drivers are directed 53 degrees from vertical in order to avoid the creation of standing waves and maintain more localized sound distribution compared to horizontally-directed drivers.

The speaker is housed in a durable, sealed steel enclosure that may be bolted directly to the ceiling or floor deck. In underfloor applications, the loudspeaker may be secured to the raised floor support. Four rubber feet prevent vibration from transmitting to the floor deck.

SPECIFICATIONS

Audio Performance	
Masking Output	87 dBA maximum
Paging Output	87 dBA maximum
Driver Specifications	
Frequency Range	100 to 8,000 Hz ± 6 dB
Dimension	7.6 cm; 3 inches
Power Handling	10 W (RMS)
Sensitivity	84.2 dBA @ 1W / 1m
Magnet Structure	58 g; 2.05 oz
Impedance	16 ohms
Connections	
Loudspeaker Input	2-pin
Cabling	
Loudspeaker to Hub	Integrated cable assembly
Physical Specifications	
Dimensions (W x H)	21.6 x 8.1 cm; 8.5 x 3.2 inches
Enclosure	Metal
Color	White
Weight	1.72 kg; 3.81 lbs
Mounting	Bolted directly to the ceiling or floor deck
Warranty	5 years; see *LogiSon® Product Warranty* for details
Certifications	Meets UL, FCC and CE standards and is approved for use in air-handling plenums; RoHS compliant

WALL MOUNT LOUDSPEAKER

LA-1WM

The LA-1WM model can be used in locations such as atriums where a suspended loudspeaker might be difficult to install or awkward in appearance. A side view (left) shows the swivel bracket that allows the loudspeaker to be positioned in the desired direction.

The loudspeaker shown from the front.

A loudspeaker is connected to a hub and used to broadcast masking, paging and/or music. The LA-1WM model can be mounted on the wall in a vertical or horizontal orientation. A swivel bracket allows the loudspeaker to be positioned in the desired direction.

SPECIFICATIONS

Audio Performance	
Masking Output	81 dBA maximum
Paging Output	81 dBA maximum
Driver Specifications	
Frequency Range	100 to 10,000 Hz
Dimension	7.6 cm; 3 inches
Power Handling	10 W (RMS)
Sensitivity	84.2 dBA @ 1W / 1m
Magnet Structure	58 g; 2.05 oz
Impedance	16 ohms
Connections	
Loudspeaker Input	2-pin
Cabling	
Loudspeaker to Hub	Integrated cable assembly
Physical Specifications	
Dimensions (W x H x L)	12 x 11 x 24.5 cm; 4.7 x 4.3 x 9.7 inches
Enclosure	Metal and plastic
Color	White
Weight	0.91 kg; 2 lb
Mounting	Swivel bracket for wall mounting
Warranty	5 years; see *LogiSon® Product Warranty* for details
Certifications	Meets UL, FCC and CE standards; RoHS compliant

A LogiSon Representative will design the system and select the components. Technical specifications are subject to change without notice.

The LogiSon Acoustic Network is also a versatile paging and music system. Simply install an Audio Input Module in the Network Control Panel and connect a source, such as a telephone or MP3 player. Clients can have areas with masking only, paging only or a combination – all within a single system.

Priority Page Override

The Network Control Panel also features a priority page function, which can be used for voice clarification in all call situations.

When a priority signal is relayed to the panel, it sets the volume to a pre-programmed level and plays the announcement over the entire system. The administrator can set the masking to either continue to run or to mute during this page. Once the priority page is complete, the system returns to its original settings.

Audio Input Modules are used to connect paging and/or music sources to the Network Control Panel. They offer analog to digital conversion and automatically adjust for input sensitivity. Each panel accepts any combination of three inputs: Auxiliary, Microphone and Telephone.

The paging and music functions play over the same set of loudspeakers as the sound masking, but their zoning and settings are independent, so you never have to compromise. The amplification and equalization technology is already integrated into the hubs, reducing the cost, energy and space typically needed for audio equipment.

Whereas most systems limit paging to a small number of predefined zones, the LogiSon Acoustic Network's zoning is digital, not hardwired. Users can create customized zones whenever and wherever required using Page Director Software. Changes can be made within minutes.

The system also features a Priority Page Override, which can be programmed to mute the masking during emergencies.

For more information, see the *LogiSon® Installation Manual* and the *LogiSon® Page Director User Manual*.

SPECIFICATIONS

Auxiliary	
Input Impedance	100 kohm
Input Level	10 V maximum
Input Sensitivity	300 mV for maximum output
Gain	Maximum 20 dB, adjustable in thirty two 1 dB steps
Frequency Response	20 to 10,000 Hz
Microphone	
Input Impedance	600 ohm
Input Level	30 mV maximum
Input Sensitivity	1 mV for maximum output
Gain	Maximum 70 dB, adjustable in thirty two 1 dB steps
Frequency Response	20 to 10,000 Hz
Telephone	
Input Impedance	600 ohm
Input Level	10 V maximum
Input Sensitivity	300 mV for maximum output
Gain	Maximum 20 dB, adjustable in thirty two 1 dB steps
Frequency Response	20 to 10,000 Hz
Warranty	5 years; see *LogiSon® Product Warranty* for details
Certifications	Meets UL, FCC and CE standards; RoHS compliant

PAGE DIRECTOR SOFTWARE

PD

Paging Configuration Screen

This screen allows the administrator to configure Page Director to communicate with the LogiSon Acoustic Network. Configuration includes active Network Control Panels, hub naming, active audio inputs, and default page zones. To assist the user, hubs can be identified by a more meaningful name, one that they will easily recognize. For example, if Hub 3 is in room A101, it can be named "A101."

User Control Screen

This screen allows users to create custom page zones on demand. Simply select the desired hubs, name the zone and make the announcement. Hubs can be set to belong to any number of paging zones.

This desktop icon launches the software. While paging systems are usually limited to a small number of hardwired zones, the LogiSon Acoustic Network offers flexible paging and music options.

Page Director allows the user to create, alter or delete an unlimited number of page zones on demand. Because of its function, this software is typically installed at a reception desk. It is designed to work with multiple Network Control Panels, allowing virtually unlimited control over any number of floors or buildings.

Paging is possible at a single loudspeaker location or over any given range of loudspeakers. It is also easy to create an 'All Call' zone for a facility, floor or department.

The user can select the desired loudspeakers, name the zone and enter a description for future reference (e.g. Meeting Room, Floor 1). They can sort paging zones into user-defined categories and subcategories for easy accessibility. The interface also provides a means to quickly search for a predefined zone. The software offers backup and restore functions for zones and settings.

The user can select one of three Audio Input Modules to use for each page, such as a microphone. If only one device is available, the software selects it by default. The user can manually end the page or set it to finish automatically, after which the system returns to its default settings.

For more information, see the *LogiSon® Page Director User Manual*. The application also includes a help file and user guide.

SPECIFICATIONS

Supported Operating Systems	• Windows 7 • Windows Vista with Service Pack 2 or later • Windows XP (x86 Home or Professional Edition) with Service Pack 3
Supported Architectures	• X86 • X64
Hardware Requirements	• Computer with 1 GHz or faster processor with 1 GB RAM or more • Graphics parts supporting WDDM drivers (Windows Display Driver Model) recommended • Minimum disk space (Microsoft components/Installation): X86 – 850 MB X64 – 2 GB • Disk space (LogiSon components): 5 MB
Prerequisites	• Windows Installer 3.1 or later • Internet Explorer 6.0 or later • Microsoft .NET Framework 4 or later

A LogiSon Representative will design the system and select the components. Technical specifications are subject to change without notice.

This desktop icon launches the software. The Monitor Settings Screen (left) enables the administrator to set the monitoring interval, enable or disable notifications, and more.

Hardware Definition Screen

This screen allows the administrator to configure Acoustic Network Supervisor to communicate with the Network Control Panel(s) it will monitor. If panels were previously defined in the Acoustic Network Manager Software, they can be imported.

Notification Settings Screen

This screen allows the administrator to enter the mail server settings, authentication options and message settings, including the subject line, recipient address(es), the priority setting for the email and the facility name. They can also enter vendor information, which inserts the LogiSon Representative's contact information into the email. If the administrator does not elect to copy them on the notifications, they can be contacted directly by the person notified.

Acoustic Network Supervisor runs as a Windows Service, which monitors the LogiSon Acoustic Network to ensure that the system is 100 percent operational 24/7. The administrator can configure it to monitor only the Network Control Panel(s) or all of the system's components. If an issue occurs, the software sends an email so that it can be quickly addressed. Because it monitors externally from the LogiSon Acoustic Network hardware, a hardware failure will not impact its ability to send these alerts.

The administrator defines the intervals at which the system should be checked, from as often as every two minutes up to as long as twenty-four hours. The administrator also defines to whom notification should be sent if an event occurs – for example, to the facility manager, IT personnel and the LogiSon Representative. The administrator can add a unique name (e.g. facility name) to the email, providing a means of identifying individual locations if it is sent to a remote recipient or one who is monitoring several facilities or floors for various tenants. They can also add vendor information to inform the recipient who to contact.

The software can be configured not to send emails in the event of client network outages and can send a start-up message when monitoring resumes. Alive notifications can be enabled to inform recipients that the application is running.

For more information, see the *LogiSon® Acoustic Network Supervisor User Manual*. The application also includes a help file and user guide.

SPECIFICATIONS

Supported Operating Systems	• Windows 7 • Windows Vista with Service Pack 2 or later • Windows XP (x86 Home or Professional Edition) with Service Pack 3 • Windows Server 2003 SP2 • Windows Server 2008, R2 SP1 (not supported on Server Core Role)
Supported Architectures	• X86 • X64
Hardware Requirements	• Computer with 1 GHz or faster processor with 1 GB RAM or more • Graphics parts supporting WDDM drivers (Windows Display Driver Model) recommended • Minimum disk space (Microsoft components/Installation): X86 – 850 MB X64 – 2 GB • Disk space (LogiSon components): 5 MB
Prerequisites	• Windows Installer 3.1 or later • Internet Explorer 6.0 or later • Microsoft .NET Framework 4 or later

RELAY OUTPUT MODULE

ROM-2

The Relay Output Module is used to connect the Network Control Panel to up to two external devices, such as warning lights, sirens and/or a security system.

For more information about the LogiSon Acoustic Network's security features, see the *Network Control Panel* and *Acoustic Network Supervisor Software* sections of this catalogue or speak to your LogiSon Representative.

SPECIFICATIONS

Relay Output	
Rated Load	0.5 A at 125 VAC; 1 A at 24 VDC
Warranty	5 years; see *LogiSon® Product Warranty* for details
Certifications	Meets UL, FCC and CE standards; RoHS compliant

Additional Security Features

The LogiSon Acoustic Network can be used to protect verbal communications from eavesdropping and electronic surveillance.

This benefit can be augmented by connecting the system to transducers that transfer the masking sound to physical structures such as windows, doors, ducts, pipes and walls, impeding the use of audio surveillance equipment.

Each transducer's volume and frequency can be modified to ensure that they are appropriate for the surface to which it is applied.

The randomness of the masking sound makes it exceedingly difficult to filter and the components cannot be modified to act as listening devices.

Applications Include

- R&D facilities
- Corporate boardrooms
- Government facilities
- Military facilities
- Police stations
- Military contractors
- Law firms
- Courts
- Temporary facilities

A LogiSon Representative will design the system and select the components. Technical specifications are subject to change without notice.

The LogiSon Acoustic Network is installed without hard-wiring timer, keypad, paging and music zones, because all zones are software-generated. Minimal cabling ensures efficient installation and a clean appearance in visible applications.

CC2

CC6

Cable Couplers are used to connect two Cable Assemblies together when a longer length is required. They are available in both 2- (CC2) and 6-conductor (CC6) sizes.

A single line of plenum-rated, low-voltage cable connects the components, carrying power, control and audio signals across the LogiSon Acoustic Network.

The 2-conductor cables are available in 5, 18, 25 and 50 foot lengths (1.5, 5.5, 7.6 and 15.2 meters). The 6-conductor cables are available in 5, 18, 25, 50 and 100 foot lengths (1.5, 5.5, 7.6, 15.2 and 30.4 meters).

All Cable Assemblies and Cable Couplers feature micro-connectors that simply snap together, enabling quick, accurate and tidy installation. Cabling connections are marked with embossed icons on the hubs. Positive-locking mechanisms prevent accidental disconnection.

SPECIFICATIONS

Physical Specifications		
Lengths	CA2-5	5 ft; 1.5 m
	CA2-18	18 ft; 5.5 m
	CA2-25	25 ft; 7.6 m
	CA2-50	50 ft; 15.2 m
	CA6-5	5 ft; 1.5 m
	CA6-18	18 ft; 5.5 m
	CA6-25	25 ft; 7.6 m
	CA6-50	50 ft; 15.2 m
	CA6-100	100 ft; 30.4 m
Connectors	2- and 6-pin over-molded micro-connectors featuring orientation guides and positive-lock mechanism	
Gauge	20 AWG	
Material	Copper stranded	
Color	White or charcoal grey	
Warranty	5 years; see *LogiSon® Product Warranty* for details	
Certifications	Meets UL, FCC and CE standards and is approved for use in air-handling plenums; RoHS compliant	

POWER SUPPLIES
THIRD PARTY OPTIONS

In most regions, a Class 2 power supply must be used with a sound masking system or the cable carrying power requires conduit.

Several Class 2 models are available for use with the LogiSon Acoustic Network, including a UL Energy Efficiency Certified option (PS-3).

Fail-Safe Power Solutions (FPS 120, FPS 250, FPS 500) with the following features are also available:

- Power redundancy: If one of the power supplies fails, the redundant power supply provides enough power to continue running a full load, ensuring uninterrupted operation of the LogiSon Acoustic Network.
- Power load sharing: Each power supply shares the power load. As a result, the life of each power supply is increased.
- Automatic fault detection: If an error occurs in one of the power supplies, relay outputs detect the condition and open/close a contact.
- Overcurrent and overvoltage protection: In the event of a power overload, the power supply limits the output current.

Ask your LogiSon Representative for spec sheets.

Sustainability

The LogiSon Acoustic Network's energy consumption is very low: less than that of a typical light bulb for an area of 13,500 ft^2.

Other green factors to consider when selecting a sound masking system include:

- Environmental programs: Find out if the manufacturer adheres to programs such as the Restriction of Hazardous Substances (RoHS) initiative, which ensures that products meet requirements for low levels of heavy metals, such as lead and cadmium.
- Lifecycle and maintenance: Most masking systems have a long lifespan and can easily be expanded or relocated. Ask how changes can be made to the system's settings and zoning in the future.
- Recycling program: Check if the manufacturer offers a recycling program for end-of-life products, ensuring zero landfill.

For more information about the impact of sustainable design strategies on acoustics, ask for our white paper *Acoustical Challenges in Green Buildings*.

A LogiSon Representative will design the system and select the components. Technical specifications are subject to change without notice.

Your Networked Solution

for Speech Privacy and Noise Control

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